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# Production Economics

# PUBLICATIONS CURRENTLY AVAILABLE

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Washington, D. C. December 1956

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Prepared in

Production Economics Research Branch

Agricultural Research Service

United States Department of Agriculture

## SUGGESTIONS

This is a list of the currently available publications of the Production Economics Research Branch, Agricultural Research Service, U. S. Department of Agriculture. Although we no longer carry supplies for distribution of publications issued by State agencies in which the Branch or its predecessor cooperated, this list does include some publications of this kind that were issued earlier, and of which we still have a supply available for distribution. A list of charts published or revised since June 1952 is included.

A reading of this note will help you avoid the time and expense of asking for publications that you may not want or need.

Some people ask us to put them on the mailing list for "everything" the Production Economics Research Branch, ARS, publishes, even though they may really want or need only a few of them. A number of our reports, however, are useful only to persons interested in particular subjects, such as farm electrification or our farmland resources, for example. Very few folks really need all of them. So here is our suggestion.

If you want certain statistics regularly as soon as they are released, find out which report publishes the figures first. For instance, detailed figures on values of farmland appear first in Current Developments in the Farm Real Estate Market. If you are interested in farm costs, the Farm Cost Situation will furnish the data you want.

We do not have publications that contain county figures. These you'll have to get from the Census of Agriculture taken every 5 years by the Bureau of the Census (U. S. Department of Commerce), or else write to the Agricultural Statistician of your State (Agricultural Marketing Service has a list of their addresses.)

If you are still uncertain as to which publication will serve you best, write to us, stating what you want as specifically as possible. We want to help you, but please don't ask to be put on the mailing list for a publication issued regularly unless you have seen a sample copy and are sure you want it. And please do ask us to take your name off the mailing list whenever you no longer want a publication you are getting.

* * * * * * * *

The reports listed in this publication are those available on November 1, 1956. The charts listed were issued between June 1, 1952, and November 1, 1956. The bimonthly checklist of Publications issued by the Branch supplements this list.

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# HOW TO ORDER MATERIALS

## Publications

Copies of the publications listed here may be obtained by writing to:

Correspondence & Publications Distribution
Agricultural Research Service
U. S. Department of Agriculture
Washington 25, D. C.

## Charts and Maps

Copies of the charts and maps listed on pages 27 to 50. are available in the following forms:

| | |
|---|---|
| Photographic prints dull or glossy | |
| 5x7 inches | $ 0.60 |
| 8x10 inches | .75 |
| Wall charts | |
| Photographic print 30x40 inches | 12.04 |
| Lantern slides 2x2 or 3-1/4x4 inches | 1.60 |

When ordering, list negative number, title, and size. If ordering 5x7 or 8x10 prints, specify dull or glossy finish. Make all remittances payable to "Office of Information, USDA." Send orders and remittances to:

Office of Information
U. S. Department of Agriculture
Washington 25, D. C.

## Filmstrips

See "Agricultural Outlook Charts" on page 4.

PRODUCTION ECONOMICS PUBLICATIONS CURRENTLY AVAILABLE

Prepared in Production Economics Research Branch

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# THE PRODUCTION ECONOMICS RESEARCH BRANCH, ARS

## Work of the Branch

The Production Economics Research Branch carries on a national program of economic and statistical research on farm problems involving the economic use of labor, land, buildings, and equipment in farm production, and adjustments in farming to technological developments and changing market outlets. Studies are made of the organization and operation of farms in representative farming areas in the interest of increasing farm income by improvements in methods and systems of farming used. Studies of the economics of soil conservation are carried on to ascertain the income potentialities of soil conservation practices, appraise the problems involved in establishing and maintaining conservation systems of farming, and evaluate the public and private benefits and costs.

Branch research on farming efficiency includes studies of farm labor, trends in mechanization and other technological developments, electrification, farm structures, fertilizer and pesticide usage, and livestock feeding practices. Research on production, income, and costs involves appraisals of farm output and productivity (nationally and by commodity and region), studies of costs and returns on important types of farms, and problems of low-production farms and their opportunities for income improvement. Studies of agricultural finance deal with farm credit facilities, financing of farm-living and farm production, agricultural risk and insurance problems, accident statistics, and impact of taxation upon individual farmers and agriculture as an industry. Land and water research involves studies of economic use and development of land and water resources, and analyses of farm real estate values, land income, land tenure problems, and farm leasing. Much of the research of the Branch is conducted in cooperation with the State Agricultural Experiment Stations and other public and private research agencies.

## PERIODICALS AND REGULARLY ISSUED REPORTS

Farm Costs and Returns . . . (With Comparisons) Commercial Family-Operated Farms, by Type and Location, issued annually, presents summary results of farm operations in the year preceding the year of issue for about 30 important types of commercial family-operated farms in major producing areas of the United States. Comparisons with previous years are included. The kinds of information shown for each type of farm include: Cash receipts, cash expenditures, net cash farm income, value of perquisites, changes in inventories of livestock and machinery and buildings, net farm income, charge for capital, and return to operator and family labor. Index numbers are included for a number of items. A map shows the location of each type of farm studied. Tables show the amount of land, labor, and capital associated with each type of farm studied.

The Farm Cost Situation, issued twice yearly, reviews the situation as to farm labor, farm power and machinery, feeds, livestock on feed or to be fed, seeds, fertilizer, building materials, containers and supplies, pesticides, land values and rentals, interest, taxes and insurance, and costs on farms of different types. Tables showing index numbers are included for goods and services used in production; prices and wage rates paid by farmers; farm power and machinery; feed supplies in relation to livestock; retail seed prices; farm real estate; and in some issues, net income and total production and operating expense per dollar of gross farm income, family-operated farms, by type. The outlook for farm costs in the year ahead is analyzed in the fall issue. More attention is given to the effects of changing technology on farm costs in the spring issue.

Changes in Farm Production and Efficiency is an annual publication designed to present major statistical series on farm production, production inputs, and efficiency. A brief digest of what each series shows to date is included as is an explanation of the methods used in developing each statistical measure. The publication was inaugurated as a means of providing in one place the latest information for each of the several series that have been developed to appraise such things as production in peace and war, changes in farm inputs and practices, improvement in labor productivity, and the progress of farm mechanization.

To date, Supplements I to III have been issued. Supplement I contains index numbers of farm production for each of certain groups of livestock and crops. Supplement II contains index numbers of man-hours of farm labor used for each of certain groups of livestock and crops. Supplement

III contains index numbers of farm production per man-hour for each of certain groups of livestock and crops.

The Balance Sheet of Agriculture, issued annually, carries forward the comparative balance sheet of agriculture first prepared for 1940. Each balance sheet is as of January 1 of the year it is issued. The balance sheet views agriculture as though it were one large enterprise. It is an aggregate of individual series of farm assets and the claims to these assets. In effect, it is comparable to a consolidated balance sheet of all farms, but it is not restricted to the assets and debts of farm operators. It includes, in addition, the farm assets owned and the farm-mortgage debt owed by nonoperators.

The Agricultural Finance Review is issued annually at the end of the calendar year and an annual supplement is issued in midyear. The Review discusses current developments and research findings in the various phases of agricultural finance. In addition, it is a basic source of financial data pertaining to agriculture in the United States. As such, it is intended for use by agricultural groups, government officials, economists, and educators who have need for a ready compilation of material relating to agricultural finance.

Signed articles by research specialists or officials of operating agencies and brief news items cover important developments in the changing financial situation of agriculture and in the financial institutions that serve agriculture. Research findings and analyses relate to such subjects as sources of capital used in agriculture, farm-mortgage credit, non-real-estate credit, financing of specialized activities such as purchase of machinery, and storage of commodities; agricultural risk and insurance, farm bankruptcies, farm real estate volume and transfers, taxation of farms and of farmers, and the interrelations of agriculture and public finance.

A statistical appendix contains detailed data by States and by geographic divisions.

The Review carries a list of current research activities in agricultural finance as reported by Federal and State agencies. Reviews of pertinent books are included.

Current Developments in the Farm Real Estate Market, issued three times a year, summarizes significant facts on trends in farmland values, volume of sales, financing farm purchases, and influences that affect the land market. Index numbers of estimated average value per acre,

by States, are included in each issue. Graphic material is included occasionally.

For tables showing taxes and values of farm real estate over a period of years, as well as other pertinent information, see Agricultural Statistics, issued by the United States Department of Agriculture, Washington 25, D. C. For reports on the land market in selected areas, see those listed on page 21 of this publication.

Agricultural Outlook Charts, issued each fall by the Agricultural Marketing Service and the Agricultural Research Service, contains charts and maps. Accompanying data are those likely to be especially useful to extension workers and others in presenting the key factors in the economic situation and outlook for agriculture. These include highlights of the Nation's general economic situation, as well as extensive information on food supplies and consumption, farm production, costs, prices, income, expenditures, land and land values, and farmers' share of the consumer's food dollar. Numerous commodity charts show the important trends for individual crops, livestock, and livestock products.

Each year a 35 mm. double frame color filmstrip is available containing the charts shown in the Agricultural Outlook Chart Book. These may be purchased as filmstrips or as 2x2 slides mounted in cardboard. The price varies each year with the number of charts used in the Outlook Chart Book. These can be purchased from:

Photo Lab Inc
3825 Georgia Avenue, N. W.
Washington 11, D. C.

In addition to the services listed on page ii, Outlook Charts are available as:

| | | |
|---|---|---|
| Positive Photostats | 18x24 | $0.75 each |

Send Order and remittances to:

Office of Information
U. S. Department of Agriculture
Washington 25, D. C.

The Agricultural Finance Outlook, issued each fall, includes information concerning the farm income situation, the farm income outlook, the financial condition of farmers, farm real estate, farm debts, farm financial assets, farm taxes, insurance, and the regional situation and outlook.

Animal Units of Livestock Fed Annually is issued in the spring of each year. It presents three sets of animal units: (1) Grain-consuming livestock; (2) roughage-consuming livestock; and (3) grain- and roughage-consuming livestock. Each issue shows these units by States from 1919-20 to date.

Labor Used for Farmwork, an annual publication, contains estimates of man-hours of labor used for farmwork in the United States, by crop and livestock enterprises, by months, and for selected periods and years.

Taxes Levied on Farm Real Estate, an annual publication, shows the amount per acre and the amount per $100 of full value levied on farm real estate, by years and by States and geographic divisions. Total taxes levied by years are also included.

Farm-Mortgage Debt, an annual publication, with varying title, contains tables showing the total debt outstanding and loans held by principal lenders, for the United States, by years and by States. Comparisons are made with the year preceding the year of issue.

The checklist of Publications Issued, which appears bimonthly, lists Branch publications issued during the previous 2 months, including publications issued by State agricultural experiment stations and other agencies with which the Branch cooperates. This checklist will prove helpful to those who wish to keep up to date on all material currently issued on a specific subject.

Agricultural Economics Research is published jointly with the Agricultural Marketing Service. This periodical, which is issued quarterly, began with the January 1949 issue. It is intended as a medium for the publication of technical articles which deal with methods, results, and findings of research in agricultural economics. Included are interim reports on work in progress, articles on new research methods or techniques, critical discussions of old techniques that are in regular use, and articles on new or expanding areas of research or statistical fact gathering. Discussions of techniques cover the probable usefulness of new developments and the place of such new areas of work in the agricultural field. Invited to contribute to the journal are representatives of the Agricultural Marketing Service and the Production Economics Research Branch, Agricultural Research Service, State agricultural statisticians, and members of their staffs. Each issue carries an annotated list of recent research and statistical publications in agricultural economics issued by the Agricultural Marketing Service, the Production Economics Research Branch, Agricultural Research Service, and cooperating State agencies.

Free distribution of this periodical is limited chiefly to professional workers. It may be obtained from the Superintendent of Documents, Government Printing Office, Washington 25, D. C., for 75 cents a year (foreign rate $1.00). Single copies are 20 cents each. Make checks payable to "Superintendent of Documents."

# PUBLICATIONS CURRENTLY AVAILABLE

## Agricultural Finance

Agricultural Finance Review, volumes 10, Nov. 1947; 11, Nov. 1948; 12, Nov. 1949; 13, Supplement, May 1951; 14, Supplement, May 1952; 14, Supplement II, Oct. 1952; 15, Nov. 1952; 15, Supplement, May 1953; 15, Outlook Supplement, 1953; 16, Nov. 1953; 16, Supplement, May 1954; 17, Nov. 1954; 18, Nov. 1955; 18, Supplement, May 1956.

Amortization of Loans. Its Application to Farm Problems. May 1954.

The Balance Sheet and Current Financial Trends of Agriculture, 1949. Agr. Inform. Bul. 1. Oct. 1949.

The Balance Sheet and Current Financial Trends of Agriculture, 1951. Reprint from Federal Reserve Bulletin, Sept. 1951.

The Balance Sheet for 1951 and Current Financial Trends of Agriculture. Agr. Inform. Bul. 73. Nov. 1951.

The Balance Sheet of Agriculture, 1947. Misc. Pub. 642. Feb. 1948.

The Balance Sheet of Agriculture, 1948. Misc. Pub. 672. 1948.

The Balance Sheet of Agriculture, 1954. Agr. Inform. Bul. 134. Aug. 1954.

The Balance Sheet of Agriculture, 1955. Agr. Inform. Bul. 145. Aug. 1955.

Bank Financing of Dairy Farmers in Northern Vermont. Agr. Inform. Bul. 129. May 1954.

Conference on Intermediate Credit for Agriculture, Fort Collins, Colo., July 19-21, 1954. Proceedings. (Great Plains Counc. Pub. 12.)

Factors Affecting Farm Loan Interest Rates. Agr. Inform. Bul. 126. May 1954.

Farm Credit in a Southern Great Plains Drought Area. A Study of Cimarron and Texas Counties, Okla., 1950-54. ARS 43-12. June 1955.

Agricultural Finance - Continued

Farm Debts Continue to Rise. ARS 43-30. June 1956.

Farm Housing and Construction. Feb. 1952.

Farm-Mortgage Debt Higher in 1956. ARS 43-36. Aug. 1956.

Farm-Mortgage Debt Increases in 1953. May 1954.

Farm Mortgage Interest Charges and Interest Rates. 1940-48. Cir. 821. Oct. 1949. (printed)

Farm-Mortgage Loans and Their Distribution by Lender Groups, 1940-48. Cir. 812. Aug. 1949. (printed)

Farm-Mortgage Loans Made or Recorded by Principal Lenders. Data for United States and Geographic Divisions, 1910-48. Apr. 1949.

Farm Mutual Reinsurance. Agr. Inform. Bul. 119. Dec. 1953.

Farmers' Mutual Windstorm Insurance. Agr. Inform. Bul. 70. Jan. 1952.

Financial Management for Farm People. Reprint from Agricultural Finance Review, v. 18, Nov. 1955.

Financial Structure of Virginia Agriculture. Agr. Inform. Bul. 97. Feb. 1953.

Fire Departments for Rural Communities. How to Organize and Operate Them. Leaflet 375. Oct. 1954. (printed)

Fire Safeguards for the Farm. Farmers' Bul. 1643. Nov. 1930, revised July 1949. (printed)

Fitting Insurance to Farmers' Needs and Circumstances. Reprint from Agricultural Finance Review, v. 16, Nov. 1953.

Hail Insurance on Growing Crops. Agr. Inform. Bul. 56. June 1951.

The Impact of Federal Income Taxes on Farm People. ARS 43-11. July 1955.

Insurance for Farmers. Fire, Windstorm, Crop-Hail, Liability, and Life. Farmers' Bul. 2016. June 1950. (printed)

Agricultural Finance - Continued

Legal Liability Risks and Insurance Protection for Farmers. Agr. Inform. Bul. 122. Apr. 1954.

Managing Farm Finances. Misc. Pub. 652. Sept. 1948. (printed)

1950 Census of Agriculture. Farm-Mortgage Debt. Census-BAE Cooperative Report, v. 5, part 8. Dec. 1952.

1955 Agricultural Finance Outlook. ARS 43-5. Oct. 1954.

Taxes Levied on Farm Property in the United States. Statis. Bul. 189. Aug. 1956.

Taxes Levied on Farm Real Estate in 1955. ARS 43-35. Aug. 1956.

U. S. Mortgaged Farms, 1950. Estimates by Ratio of Debt to Value. ARS 43-13. Aug. 1955.

## CONSERVATION

Conservation Problems and Achievements on Selected Midwestern Farms. Ohio Agr. Expt. Sta. Spec. Cir. 86 (North Central Regional Pub. 23). Agr. Expt. Stas. of North Central States, and Farm Foundation cooperating. July 1951. (printed)

Economics of Some Soil Conservation Practices. Iowa Agr. Expt. Sta. Res. Bul. 403 (North Central Regional Pub. 44). Agr. Expt. Stas. of Ill., Ind., Iowa, Kans., Ky., Mich., Minn., Mo., Nebr., N. Dak., Ohio, S. Dak., Wis., and Farm Foundation cooperating. Dec. 1953. (printed)

Farm Aspects of Conservation Development in New England-New York. Prepared for the Agriculture Study and Report Group of the New England-New York Inter-Agency Committee, Sept. 1953.

Obstacles to Conservation on Midwestern Farms. Mo. Agr. Expt. Sta. Bul. 574 (North Central Regional Pub. 28). Agr. Expt. Stas. of Ill. Ind., Iowa, Kans., Ky., Mich., Minn., Nebr., N. Dak., Ohio, S. Dak., Wis., and Farm Foundation cooperating. June 1952. (printed)

## Farm Income and Costs

Changes in Costs on Spring Wheat Farms in the Northern Plains. Production Res. Rpt. 4. Sept. 1956.

Commercial Family-Operated Sheep Ranches, Range Livestock Area, Northern Great Plains, 1930-50. Organization, Production Practices, Costs, and Returns. Mont. Agr. Expt. Sta. Bul. 478. Nov. 1951. (printed)

Dairy Costs and Returns in Upper Peninsula of Michigan. Mich. State Col. Agr. Econ. 455. Oct. 1949.

Upper Peninsula Dairy Study. Supplementary Tabulations for Three Areas. [n. d.]

The Farm Cost Situation, October 1954. ARS 43-6 (FCS-17)

The Farm Cost Situation, March 1955. ARS 43-9 (FCS-18)

The Farm Cost Situation, November 1955. ARS 43-23 (FCS-19)

The Farm Cost Situation, May 1956. ARS 43-29 (FCS-20)

Farm Costs and Returns, 1945-47. Commercial Family-Operated Farms in 6 Major Farming Regions. F. M. 70. Sept. 1948.

Farm Costs and Returns, 1949, with Comparisons, Commercial Family-Operated Farms in 7 Major Farming Regions. F. M. 78. May 1950.

Farm Costs and Returns, 1949, with Comparisons, Commercial Family-Operated Tobacco-Livestock Farms, Bluegrass Area of Kentucky. Ky. Agr. Expt. Sta. cooperating. June 1950.

Farm Costs and Returns, 1953 (with Comparisons) Commercial Family-Operated Farms, by Type and Location. Agr. Inform. Bul. 128. June 1954.

Farm Costs and Returns, 1953, with Comparisons, Commercial Family-Operated Tobacco-Livestock Farms, Bluegrass Area of Kentucky. PERB 2. Ky. Agr. Expt. Sta. cooperating. June 1954.

Farm Costs and Returns, 1954 (with Comparisons) Commercial Family-Operated Farms, by Type and Location. Agr. Inform. Bul. 139. June 1955.

## Farm Income and Costs - Continued

Farm Costs and Returns, 1955 (with Comparisons) Commercial Family-Operated Farms, by Type and Location. Agr. Inform. Bul. 158. June 1956.

Farm Family Income. Its Distribution and Relation to Nonfarm Income. ARS 43-34. July 1956.

Gross Farm Income in the Wheat-Pea Area of Washington and Idaho, 1935 to 1950. Wash. Agr. Expt. Sta. Cir. 213. Mar. 1953.

Irrigated Farms in a Subhumid Cotton Area. Income Potentials and Development Problems. Cir. 980. May 1956.

Typical Family-Operated Farms, 1930-45. Adjustments, Costs, and Returns. F.M. 55. Apr. 1946.

Typical Family-Operated Farms, 1930-45. An Historical Look to the Future. F.M. 56. Apr. 1946.

Wheat-Pea Farming in Washington and Idaho, 1935-53. Farm Costs and Returns. Cir. 954. /Apr. 1955./

## Farm Organization and Adjustment

Alternative Uses of Excess Wheat Acreage with Emphasis on the Use of Wheat for Feed. Kans. Agr. Expt. Sta. Agr. Econ. Rpt. 39. Dec. 1949.

Changes in Dairy Farming in the Northeast, 1930-51. Agr. Inform. Bul. 86. June 1952.

Changes in Farm Production of Chickens and Eggs, 1924-48. F.M. 67. June 1948.

Commercial Poultry-Farm Management in New York State, 1946-47. N. Y. (Cornell) Agr. Expt. Sta. Bul. 864. Oct. 1950. (printed)

Comparison of Farming Systems for Large Rice Farms in Arkansas. Ark. Agr. Expt. Sta. Bul. 509. June 1951.

Competitive Position of Chicken and Egg Production in the United States. Tech. Bul. 1018. Aug. 1950. (printed)

Farm Organization and Adjustment - Continued

Economic and Functional Characteristics of Farm Dairy Buildings. Ill. Agr. Expt. Sta. Bul. 570. /Nov. 1953./ (printed)

Economic Efficiency in Pasture Production and Improvement in Southern Iowa. Iowa Agr. Expt. Sta. Res. Bul. 419. Dec. 1954. (printed)

Economic Use of Forages in Livestock Production on Corn Belt Farms. U. S. Dept. Agr. Cir. 905. Iowa Agr. Expt. Sta. cooperating. July 1952. (printed)

Factors Influencing the Seasonal Adjustment of Milk Production on Farms in the Boston Milkshed. Preliminary report. Me., N. H., and Vt. Agr. Expt. Stas., and Administrator of Fed. Milk Mktg. Order No. 4 cooperating. Oct. 1949.

Farm Organization and Income on Irrigated Farms in 1944, Vale-Owyhee Project, Oregon. Jan. 1947.

Farming Alternatives for Potato Growers on the Eastern Shore. . . (Virginia-Maryland.) Agr. Inform. Bul. 102. Va. and Md. Agr. Expt. Stas. cooperating. June 1953.

Farming Prospects on the Colorado River Indian Reservation, with Particular Reference to Appropriate Size and Type of Farm for Indian Settlers. Sept. 1951.

Grassland in Organization of Dairy Farms in Northeastern Pennsylvania. Pa. Agr. Expt. Sta. Bul. 583. Sept. 1954. (printed)

Interregional Competition in the Production of Chickens and Eggs. Tech. Bul. 1031. July 1951. (printed)

Meeting Dairy Market Sanitation Requirements Economically. A Preliminary Report. Marketing Res. Rpt. 64. May 1954.

Planning for Profitable Grassland on Dairy Farms in Central Pennsylvania. Pa. Agr. Expt. Sta. Bul. 545. Oct. 1951. (printed)

Production Efficiency on New England Dairy Farms. No. 2. Economies of Scale in Dairying - An Exploration in Farm Management Research Methodology. Conn. Agr. Expt. Sta. Bul. 285. Feb. 1952. (printed)

## Farm Organization and Adjustment - Continued

The Seasonal Adjustment of Milk Production in the Boston Milkshed. Me., N. H., and Vt. Agr. Expt. Stas., and Administrator of Fed. Milk Mktg. Order No. 4 cooperating. June 1950.

Seasonality of Milk Deliveries in the Boston Milkshed. Me., N. H., and Vt. Agr. Expt. Stas., and Administrator of Fed. Milk Mktg. Order No. 4 cooperating. June 1949.

Systems of Farming in Irrigation Districts in the Republican River Valley (Located in a Dry Subhumid Area). Nebr. Agr. Expt. Sta. Bul. 404. Kans. Agr. Expt. Sta. cooperating. Oct. 1951. (printed)

Will More Forage Pay? Economic Aspects of Using More Pasture and Forage on Farms. Misc. Pub. 702. Nov. 1949. (printed)

## Farm Practices

Alfalfa - Harvesting and Feeding. Colo. Agr. Expt. Sta. Bul. 417-A. May 1954. (printed)

Business Records for Poultry Keepers. Farmers' Bul. 1614. Dec. 1929; slightly revised Mar. 1946. (printed)

Cotton Growing in Eastern Oklahoma. A Comparison of Present Methods and Recommended Practices. Okla. Agr. Expt. Sta. Bul. B-345. Feb. 1950. (printed)

Cotton Growing in Southwestern Oklahoma. A Comparison of Present Methods and Recommended Practices. Okla. Agr. Expt. Sta. Bul. B-350. June 1950. (printed)

Cotton Production Practices in the Black Belt Area of Alabama. Ala. Agr. Expt. Sta. Cir. 105. Dec. 1951. (printed)

Cotton Production Practices in the Northeast Sandy Lands Area, 1947. Tex. Agr. Expt. Sta. Misc. Pub. 38. Mar. 1950.

Cotton Production Practices in the Sand Mountain Area of Alabama. Ala. Agr. Expt. Sta. Cir. 101. Aug. 1951.

Crop Production Practices. Labor, Power, and Materials, by Operation, Appalachian, Southeast, and Mississippi Delta. F. M. 92, Sec. 3. May 1953.

Farm Practices - Continued

Crop Production Practices. Labor, Power, and Materials, by Operation, Corn Belt and Lake States. F. M. 92, Sec. 2. June 1952.

Crop Production Practices. Labor, Power, and Materials, by Operation, Great Plains. F. M. 92, Sec. 4. Jan. 1953.

Crop Production Practices. Labor, Power, and Materials, by Operation, Mountain and Pacific States. F. M. 92, Sec. 5. Mar. 1953.

Crop Production Practices. Labor, Power, and Materials, by Operation, Northeast. F. M. 92, Sec. 1. June 1952.

An Economic Analysis of Land Clearing and Subsequent Crop Production in the Corpus Christi Area. Tex. Agr. Expt. Sta. Prog. Rpt. 1628. Nov. 1953.

Economic Appraisal of Farming Practices and Rotation Programs on Louisiana Rice Farms. La. Agr. Expt. Sta. Bul. 491. June 1954. (printed)

Economics of Cotton Harvesting, Texas High Plains, 1948 Season. Tex. Agr. Expt. Sta. Prog. Rpt. 1200. Dec. 1949.

Extent and Cost of Spraying and Dusting on Farms - 1952. Statis. Bul. 156. Apr. 1955.

Farm Production Practices, Costs, and Returns. Statis. Bul. 83. Oct. 1949.

Growing Dry Beans in the Western States. Farmers' Bul. 1996. Dec. 1947. (printed)

Harvesting Corn for Grain. Statis. Bul. 129. June 1953.

Harvesting Dry Edible Beans and Dry Field Peas. Mar. 1946.

Harvesting Hay and Silage. F. M. 79. June 1950.

Harvesting Hay and Straw. ARS 43-27. May 1956.

Harvesting Hay and Straw and Use of Balers. F. M. 107. June 1953.

Harvesting Small Grains and Utilization of the Straw. F. M. 66. June 1947.

## Farm Practices - Continued

Harvesting the Corn Crop. F.M. 49. Apr. 1945.

Harvesting the Silage Crops. Statis. Bul. 128. May 1953.

Hay Harvesting Methods and Costs. Cir. 868. June 1951.

How Selected Specialty Crops were Produced in the Boise and Payette Valleys of Idaho, 1947. F.M. 89. June 1951.

Methods of Harvesting Grass Silage in Northeastern Pennsylvania. F.M. 75. Feb. 1950.

1947 Studies of Flame Cultivation in Cotton, Yazoo-Mississippi Delta. Miss. Agr. Expt. Sta. Cir. 143. Oct. 1948.

Planting and Fertilizing Corn. F.M. 84. June 1951.

Production Practices for Irrigated Crops on the High Plains. Tex. Agr. Expt. Sta. Bul. 763. June 1953. (printed)

Profitable Broiler Production in Indiana. Ind. Agr. Expt. Sta. Bul. 539. Mar. 1950. (printed)

Rice Mill Yield and Grade in Relation to Variety and Method of Harvest. Ark. Agr. Expt. Sta. Bul. 526. June 1952. (printed)

Sheep Migration in the Intermountain Region. Cir. 624. Jan. 1942.

Sugar Beet Production in the Red River Valley. N. Dak. Agr. Expt. Sta. Bul. 363. Dec. 1950. (printed)

Useful Records for Family Farms. Farmers' Bul. 1962. Nov. 1944. (printed)

## Feeds

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## CHARTS AND MAPS 1/

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|---|---|
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| 48849-XX | Production credit association loans in the Mississippi delta. (3 line charts.) |
| 48850-XX | Production credit association loans in the Northwest. (3 line charts.) |
| 48851-XX | Production credit association loans in western Vermont and northern New York. (3 line charts.) |
| 48891-XX | Average net income of farm operators by class of operator and by source, Virginia, 1948. (Bar chart.) |
| 48893-XX | Capital used to produce varying net cash farm incomes, by type of farm, Virginia, 1949. (Line chart.) |
| 48901-XX | Farm and nonfarm assets of commercial farm operators by net worth and class of operator, Virginia, mid-1949. (Bar chart.) |
| 48902-XX | Debt-asset situation, commercial farmers, Virginia, mid-1949. (Bar chart.) |
| 49195-X | Non-real-estate debt as a percentage of total farm debt owed to institutional lenders. Jan. 1, 1946 and Jan. 1, 1953. (Map with numbers.) |
| 49389-XX | Non-real-estate farm loans held by insured banks and federally sponsored agencies, percentage change, 1952-53. (Shaded map with figures.) |
| 49433-X | What farmers own . . . their assets (in current dollars). (Surface chart.) |
| 49434-X | Farmers' assets in 1940 dollars. (Surface chart.) |

1/ See Outlook Charts, for information on ordering photographic copies.

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
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| 53(11)-105 | Farm-mortgage loans made or recorded--percentage distribution by principal lenders (1910-1952). (Surface chart.) |
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| 55(6)-170 | Farm-mortgage debt held by major lenders. (Surface chart.) |
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| 56(10)-506 | Non-real-estate farm loans held by banks and federally sponsored agencies, by regions. (Surface chart.) |
| 54(7)-515 | Farm-mortgage loans held by life insurance companies, percentage of total State farm mortgage debt, Jan. 1, 1945. (Shaded map with figures.) |
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## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | Agricultural Finance - Continued |
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| 55(7)-713 | Assets used in production, average value per worker. (Bar chart.) |
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## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Agricultural Finance - Continued** |
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| 56(7)-911 | The balance sheet of agriculture. (2 surface charts.) |
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| 56(6)-913 | Farm debt. (Line chart.) |
| 56(10)-934 | Financing of farm purchases. (4 line charts.) |
| 55(3)-936 | Capital turnover. (Line chart.) |
| 55(3)-998 | Value of physical assets, selected farm capital items. (Surface chart.) |
| | **Farm Income and Costs** |
| BAE | |
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| 48687-XX | Production, input per unit of production, and prices received, cotton farms, Southern Piedmont. (Line chart.) |
| 48688-XX | Production, input per unit of production, and prices received, dairy farms, Central Northeast. (Line chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | Farm Income and Costs - Continued |
| BAE | |
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| 49302-X | Net farm income, commercial family-operated farms, by types; tobacco, cotton, and wheat-pea farms. (4 line charts.) |
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## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
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## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
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| ARS | |
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| 54(7)-529 | Value of land and residual income per acre, on commercial farms, by productivity regions, 1949. (Shaded map with figures.) |
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| 54(7)-531 | Relation of output-input ratio to the value of total inputs on commercial farms, 1949. (Line chart.) |
| 54(12)-551 | Average net income of commercial farmers, selected type-of-farming areas and rest of United States, 1949. (Bar chart.) |
| 54(11)-554 | Income and expense, wheat-pea farms in Washington and Idaho. (Surface chart.) |
| 54(11)-556 | Crop production, wheat-pea area of Washington and Idaho. (2 line charts.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | Farm Income and Costs - Continued |
| ARS | |
| 54(11)-557 | Wheat and relative income, wheat-pea area of Washington and Idaho. (Line chart.) |
| 54(11)-558 | Farm assets and net income, wheat-pea area of Washington and Idaho. (Line chart.) |
| 54(11)-559 | Farm inputs per crop acre, wheat-pea area of Washington and Idaho. (Line chart.) |
| 54(11)-562 | Peas respond to income, wheat-pea farms of Washington and Idaho. (Line chart.) |
| 55(7)-709 | Production per unit of input. (Line chart.) |
| 55(7)-710 | Returns per hour, adjusted for changes in family living costs. (Line chart.) |
| 55(10)-754 | Prices and rates paid by farmers for production. (2 line charts.) |
| 55(8)-740 | Cumulative outlays - cumulative earnings (80-acre farm, W. C. Austin Irrigation Project). (Line chart.) |
| 55(10)-755 | Prices paid by farmers, 1954 vs. 1947-49. (Bar chart.) |
| 55(10)-756 | Farm cost rates, fall, 1955. (Bar chart.) |
| 55(10)-768 | Prices paid and expenditures (by farmers for production). (4 line charts.) |
| 56(6)-775 | Farm and non-farm median income. (Shaded map.) |
| 56(6)-776 | Rural farm family income. (Shaded map.) |
| 56(1)-925 | Farmers' expenditures for non-farm goods and services. (Shaded line chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | Farm Income and Costs - Continued |
| ARS | |
| 55(2)-929 | Cost of materials (for poultry houses, for fences). (2 bar charts.) |
| 56(4)-991 | Farm operators' income from farming. (Surface chart.) |
| 56(5)-992 | Farm operators' net farm income per farm. (Line chart.) |
| 56(4)-2130 | Net farm income, 1955 compared with 1954. (Bar chart.) |
| 56(4)-2131 | Production per unit of input, 1951-55 compared with 1937-41. (Bar chart.) |
| 56(4)-2134 | Purchasing power of net farm income, 1955 compared with 1937-41. (Bar chart.) |
| 56(4)-2135 | Farm income, labor income, and purchasing power. (Line chart.) |
| 56(5)-2139 | Cost of nonfarm commodities. (Line chart.) |
| 56(5)-2142 | Production factors per unit of farm output (percent change 1955 from 1940.) (Bar chart.) |
| 56(5)-2143 | Cost rates and prices paid by farmers (percent change 1955 from 1940.) (Bar chart.) |
| 56(5)-2144 | Production expenses of farm operators (percent change 1955 from 1940.) (Bar chart.) |
| 56(6)-2159 | Gross income and costs. (Wheat-small grain-livestock farms.) (Line chart.) |
| 56(6)-2160 | Total inputs and crop yields. (Wheat-small grain-livestock farms.) (Line chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Farm Income and Costs - Continued** |
| ARS | |
| 56(6)-2161 | Costs per unit and prices paid. (Wheat-small grain-livestock farms.) (Line chart.) |
| 56(6)-2164 | Nonfarm goods and services used in farm production. (Bar chart.) |
| 56(6)-2172 | Nonfarm family median income. (Shaded map.) |
| | **Farm Organization and Adjustment** |
| 55(10)-751 | Changes in production, 1955 compared to 1947-49. (Bar chart.) |
| 55(5)-967 | Broiler firm opportunities. (Line chart.) |
| | **Feeds** |
| 55(1)-580 | Pasture and grazing, percentage consumed by dairy cattle, 1949-50. (Shaded map.) |
| 55(1)-581 | Pasture and grazing, percentage consumed by beef cattle, 1949-50. (Shaded map.) |
| 55(1)-582 | Hay feed, percentage fed to dairy cattle, 1949-50. (Shaded map.) |
| 55(1)-583 | All concentrates fed, percentage consumed by hogs, 1949-50. (Shaded map.) |
| 55(1)-584 | All concentrates fed, percentage consumed by poultry, 1949-50. (Shaded map.) |
| 55(1)-585 | All concentrates fed, percentage consumed by beef cattle, 1949-50. (Shaded map.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Feeds - Continued** |
| ARS | |
| 55(1)-586 | All concentrates fed, percentage consumed by dairy cattle, 1949-50. (Shaded map.) |
| 55(1)-587 | Corn fed, percentage consumed by hogs, 1949-50. (Shaded map.) |
| 55(1)-588 | Corn fed, percentage consumed by poultry, 1949-50. (Shaded map.) |
| 55(1)-589 | Formula feeds fed, percentage consumed by dairy cattle, 1949-50. (Shaded map.) |
| 55(1)-590 | Formula feeds fed, percentage consumed by poultry, 1949-50. (Shaded map.) |
| 55(1)-591 | Feed for poultry, percentage of all feed from grains, 1949-50. (Shaded map.) |
| 55(1)-592 | Feed for poultry, percentage of all feed from formula feeds, 1949-50. (Shaded map.) |
| 55(1)-593 | Feed for beef cattle, percentage of all feed from pasture and grazing, 1949-50. (Shaded map.) |
| 55(1)-594 | Feed for dairy cattle, percentage of all feed from pasture, 1949-50. (Shaded map.) |
| 55(1)-595 | Feed for dairy cattle, percentage of all feed from hay, 1949-50. (Shaded map.) |
| 55(1)-596 | Feed for all livestock, percentage of all feed from pasture and grazing, 1949-50. (Shaded map.) |
| 55(1)-597 | Feed for all livestock, percentage of all feed from hay, 1949-50. (Shaded map.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Feeds - Continued** |
| ARS | |
| 55(1)-598 | Feed for all livestock, percentage of all feed from all concentrates, 1949-50. (Shaded map.) |
| 56(1)-738 | Little change in total feed conversion efficiency. (Bar chart.) |
| 56(1)-739 | Feed conversion by kinds of livestock, 1949-53. (Bar chart.) |
| 56(1)-787 | Feed-efficiency in broiler production is increasing. (Bar chart.) |
| | **Fertilizer** |
| BAE | |
| 49210-HX | Finding the rate for highest return above fertilizer cost. (Line chart.) |
| 49214-HX | Finding the most profitable combination of plant nutrients for any crop price-fertilizer cost relationship at a given nutrient cost ratio. (Line chart.) |
| 49234-XX | Alfalfa yield response to phosphate fertilizer. (Line chart.) |
| 49237-HX | Yield curves for alfalfa, four locations in the West. (Line chart.) |
| 49238-HX | Finding the rate for highest return above fertilizer cost. (Line chart.) |
| 49239-HX | Most profitable rate of $P_2O_5$ for alfalfa at different prices and costs, Yuma Mesa, Arizona. (Line chart.) |
| 49338-XX | Nitrogen application and corn plants per acre - most profitable combination. (Nomograph.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | Fertilizer - Continued |
| BAE | |
| 49340-XX | Nitrogen and $P_2O_5$ application for corn - least cost combination for constant yield. (Nomograph.) |
| 49341-XX | Nitrogen and $P_2O_5$ application for corn - most profitable combination. (Nomograph.) |
| 49445-XX | N, $P_2O_5$, and $K_2O$ for corn - most profitable combination. (Nomograph.) |
| 49446-XX | Nitrogen application for corn - most profitable rate per acre at current and improved levels of other practices. (Nomograph.) |
| 49467-XX | Effect of corn price decline after applying fertilizer. (Line chart.) |
| ARS | |
| 54(4)-163 | Diminishing marginal returns [from use of nitrogen.] (Line chart.) |
| 55(5)-745 | Corn response to nitrogen, experiment 10, Ontario, Oregon. (Line chart.) |
| 55(5)-746 | Corn response to nitrogen, experiment 51, Hardy, Nebraska, 1952. (Line chart.) |
| 55(5)-747 | Corn response to nitrogen, experiment 32, Prosser, Washington, 1953. (Line chart.) |
| 55(10)-752 | Changes in use of fertilizer and farm income. (Line chart.) |
| 54(9)-910 | Fertilizer use and prices. (Line chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | Fertilizer - Continued |
| ARS | |
| 55(2)-927 | Fertilizer consumption. (Line chart.) |
| 55(5)-972 | Estimating most profitable rate from corn yield response to nitrogen. (Line chart.) |
| 55(5)-973 | Most profitable combination fertilizer for corn. (Line chart.) |
| 55(5)-974 | Effect on return by too little or too much fertilizer. (Line chart.) |
| 55(5)-975 | Effect on return by changes in price of crop after fertilizer is applied. (Line chart.) |
| 55(5)-980 | Increment curves [to find rate for highest return to nitrogen]. (Line chart.) |
| 55(5)-981 | Measures of return to nitrogen, experiment 10, Ontario, Oregon, 1952. (Line chart.) |
| 55(5)-982 | Corn response to nitrogen, technician vs farmer experiments. (Line chart.) |
| 55(5)-983 | Phosphate fertilizer - effect on corn response to nitrogen, Ontario, Oregon. (Line chart.) |
| 55(5)-984 | Alfalfa - effect on corn response to nitrogen. (Line chart.) |
| 55(5)-985 | Legume cover crop - effect on corn response to nitrogen, Moses Lake, Wash. (Line chart.) |
| 55(5)-986 | Moisture level - effect on corn response to nitrogen. (Line chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Fertilizer - Continued** |
| **ARS** | |
| 55(5)-987 | Moisture and plant population - effect on corn response to nitrogen, Ontario, Oregon. (Line chart.) |
| 55(5)-988 | Corn response to residual nitrogen - Scottsbluff, Nebraska. (Line chart.) |
| 56(5)-2140 | Plant nutrients in commercial fertilizers. (Bar chart.) |
| 56(5)-2141 | Cost per pound of nitrogen. (Bar chart.) |
| | **Labor** |
| **BAE** | |
| 48885-XX | Farm wage workers in Pine Bluff, Arkansas. (Surface chart.) |
| 48887-XX | Farm wage workers in Opelousas and nearby towns, La. (Surface chart.) |
| 48888-XX | Farm wage workers in Roswell and Artesia, New Mexico. (Surface chart.) |
| **ARS** | |
| 54(5)-184 | Labor needs in Atlantic coast seasonal work areas, 1952. (Bar chart.) |
| 54(5)-185 | Major work areas, migratory farm workers Atlantic coast, 1952. (Map.) |
| 55(9)-563 | Farm labor productivity. (Line chart.) |
| 56(1)-736 | Man-hours of labor per $100 of production, 1955. (Bar chart.) |
| 55(11)-769 | Crop labor productivity. (Line chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Labor - Continued** |
| ARS | |
| 55(11)-770 | Livestock labor productivity. (Line chart.) |
| 56(9)-909 | Persons supported by one farm worker. (Line chart.) |
| 55(9)-919 | Efficiency in use of farm labor: Crops - livestock. (Line chart.) |
| 55(9)-920 | Efficiency in use of farm labor: All crops - feed grains - hay. (Line chart.) |
| 55(3)-933 | Milk cows: Machine and hand-milked, man-hours of labor used per head, by regions, 1950. (Map.) |
| 55(4)-952 | Seasonal farm labor force in Cordele, Ga. (Bar chart.) |
| 55(4)-953 | Seasonal farm labor needs, Cordele, Ga., estimate for 1952. (Surface chart.) |
| 55(4)-954 | Seasonal farm labor force, southeastern compared with southwestern cotton areas. (Bar chart.) |
| 55(4)-960 | Farm wage workers in Cordele, Ga., distribution by labor force status, May 1951 - May 1952. (Surface chart.) |
| | **Land Tenure** |
| BAE | |
| 48894-XX | Crop production and fertilizer use, potential increases related to tenancy. (Bar chart.) |
| 48895-XX | Farm production and labor output, potential increases related to tenancy. (Bar chart.) |
| 48928-VX | Tenure relations in 1950. (Bar chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Land Tenure - Continued** |
| BAE | |
| 49092-XX | Land ownership, private and public, by major uses, 1950. (Bar chart.) |
| ARS | |
| 56(3)-782 | Land values and tenancy, northeastern Colorado irrigated area. (Line chart.) |
| | **Land Utilization** |
| BAE | |
| 48669-XX | Vegetative cover types, Federal rural land, continental United States, 1950. (Pie chart.) |
| 48829-X | The trend in land utilization. (Surface chart.) |
| 48837-X | Cropland as percentage of total land area, by States and regions, 1950. (Shaded map with figures.) |
| 48838-X | All pasture and grazing land as percentage of total land area, by States and regions, 1950. (Shaded map with figures.) |
| 48889-X | Major uses of nonfarm land as compared with total land area, by regions, 1950. (Pie map.) |
| 48923-XX | Agricultural land, eastern agricultural regions, by type, 1880-1950. (6 line charts.) |
| 49083-XX | Irrigated acreage in 17 Western States. (Bar chart.) |
| 49091-XX | Utilization of cropland at different periods. (Bar chart.) |
| 49198-XX | Major uses of State-owned rural land, 1950. (Pie chart.) |
| 49286-XX | Percent of land in farms, by major types of owners, United States and regions, 1950. (Bar chart.) |
| 49287-XX | Irrigated acres, all crops, 31 Eastern States. (Bar chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | Land Utilization - Continued |
| ARS | |
| 54(5)-168 | Major uses of cropland. (Surface chart.) |
| 54(10)-545 | Farmland use by areas, Alaska, 1949. (Bar chart.) |
| 54(10)-546 | Distribution of farms by areas and major groups, Alaska, 1950. (Bar chart.) |
| 54(11)-553 | Cropland composition, wheat-pea area of Washington and Idaho. (Surface chart.) |
| 55(1)-564 | Major uses of land, 1950. (Pie chart.) |
| 55(9)-749 | Land relief of the United States. (Relief map.) |
| 56(9)-908 | Uses of cropland harvested. (Surface chart.) |
| 55(3)-938 | Cropland 1910-50 and projection to 1975. (6 line charts.) |
| 55(3)-939 | Pasture and grazing land. (Surface chart.) |
| 55(3)-940 | Trend in land utilization projection to 1975. (Surface chart.) |
| 55(3)-941 | Irrigated acreage in the 17 Western States, and projection to 1975. (Line chart.) |
| 55(3)-942 | Areas irrigated and irrigable. (Pie map.) |
| 55(3)-943 | Land in drainage enterprises in the United States, and projection to 1975. (Bar chart.) |
| 55(3)-944 | Land in drainage enterprises - acreage, 1950. (Dot map.) |
| 55(6)-2174 | Major uses of land, 1954. (Pie chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Land Values** |
| ARS | |
| 54(11)-555 | Prices and land values, wheat-pea farms in Washington and Idaho. (Line chart.) |
| 56(9)-748 | Land values lag behind commodity prices. (Line chart.) |
| 55(11)-771 | Changes in dollar value of farm land, percentages, Nov. 1954 to Nov. 1955. (Shaded map with figures.) |
| 55(11)-772 | Changes in dollar value of farm land, percentages, July 1955 to November 1955. (Shaded map with figures.) |
| 55(9)-935 | Who buys and sells farmland. (Line and surface charts.) |
| 55(4)-962 | Farm real estate (land value, foreclosures, and transfers). (Line chart.) |
| 55(4)-963 | Dealer and auction sales, farm real estate. (2 shaded maps with figures.) |
| 55(4)-964 | How farms are sold. (2 shaded maps with figures.) |
| 56(6)-2175 | Changes in dollar value of farmland, March 1955 to March 1956. (Shaded map with figures.) |
| 56(6)-2176 | Changes in dollar value of farmland, November 1955 to March 1956. (Shaded map with figures.) |
| 56(9)-2190 | Changes in dollar value of farmland, percentages, July 1955 to July 1956. (Shaded map with figures.) |
| 56(9)-2191 | Changes in dollar value of farmland, percentages, March 1956 to July 1956. (Shaded map with figures.) |
| 56(9)-2192 | Farm real estate transfers. (Surface chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Low Income and Size of Farm** |
| **BAE** | |
| 49081-HX | Low production commercial farms - percentage of all commercial farms, 1950. (Shaded map.) |
| 48991-XX | Changes in farm size, by regions, 1920 to 1950. (Map with bars.) |
| **ARS** | |
| 56(2)-774 | Low income farm families. (Dot map.) |
| | **Mechanization** |
| **BAE** | |
| 49106-XX | Timing of pig farrowing, and farm labor distribution on livestock farm in Iowa, using electric pig brooder. (2 bar charts.) |
| 49107-XX | Cost of operating an electric milking machine. (Line chart.) |
| 49108-XX | Cost of operating an electric dairy water heater. (Line chart.) |
| 49109-XX | Cost of operating an electric separator. (Line chart.) |
| 49110-XX | Cost of operating a deep well water pump and electric motor. (Line chart.) |
| 49111-XX | Cost of operating an electric motor for elevating corn. (Line chart.) |
| 49112-XX | Harvesting silage crops, by methods used, specified years. (Bar chart.) |
| 49327-XX | Use of electric energy on farms, electrified farms in New York and New England, 1951. (Pie chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Mechanization - Continued** |
| **BAE** | |
| 49328-XX | Farms, by location of electric meters, electrified farms in New York and New England, June 1952. (Pie chart.) |
| 49329-XX | Farms, by pieces of electrical equipment (farm use only), electrified farms in New York and New England, June 1952. (Pie chart.) |
| 49330-XX | Kitchen ranges and water heaters on farms, by type, electrified farms in New York and New England, June 1952. (2 bar charts.) |
| 49332-XX | Average annual KWH consumption, by type of farm, electrified farms in New York and New England, 1942-51. (Line chart.) |
| 49333-XX | Average annual KWH consumption, by income groups, electrified farms in New York and New England, 1942-51. (Line chart.) |
| 49334-XX | Average annual KWH consumption, by size of farm, electrified farms in New York and New England, 1942-51. (Line chart.) |
| **ARS** | |
| 54(2)-111 | Average annual KWH consumption and projections to 1961 (per farm, electrified farms in New York and New England, 1942-51). (Line chart.) |
| 54(2)-112 | Indexes of KWH consumption, annual bill and cost per KWH (per farm, electrified farms in New York and New England, 1942-51). (Line chart.) |
| 55(9)-544 | Labor and machinery used for selected types of farms. (4 line charts.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | Mechanization - Continued |
| ARS | |
| 54(11)-560 | Machinery and power expense, wheat-pea area of Washington. (Surface chart.) |
| 55(11)-568 | Average annual KWH consumption electrified farms, E. Iowa and E. Tennessee Valley. (Line chart.) |
| 55(1)-569 | Average annual KWH consumption by period of electrification, electrified farms of eastern Iowa. (Line chart.) |
| 55(1)-570 | Average annual KWH consumption, electrified farms, N. W. Wash., E. Wisc., N. Y., and New England. (Line chart.) |
| 55(1)-571 | Areas for studies of electricity on farms, 1948-52. (Map.) |
| 56(3)-905 | Horses and mules, and tractors on farms Jan. 1. (Line chart.) |
| 56(6)-907 | Principal machines on farms, 1940 and 1955. (Pictorial bar chart.) |
| 56(4)-928 | Farm machinery costs, 160-acre hog-dairy farm, Northeast Iowa. (Surface chart.) |
| 55(2)-930 | Farm mechanization and output. (Line chart.) |
| 55(2)-931 | Income and machinery purchases by farmers. (Line chart.) |
| 55(4)-955 | Location of study area, farm electrification, eastern Wisconsin, 1950. (Location map.) |
| 55(4)-956 | Annual KWH consumption by type of farm, electrified farms, eastern dairy area of Wis., 1940-49. (Line chart.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Mechanization - Continued** |
| **ARS** | |
| 55(4)-957 | Annual KWH consumption by income groups, electrified farms, eastern dairy area of Wis., 1940-49. (Line chart.) |
| 55(4)-958 | Annual KWH consumption by date of connection, electrified farms, eastern dairy area of Wis., 1940-49. (Line chart.) |
| 55(4)-959 | Monthly KWH consumption 1940, 1948, and 1949, electrified farms, eastern dairy area of Wisconsin. (Line chart.) |
| 55(4)-961 | Use of electric energy, electrified farms, eastern dairy area of Wisconsin, 1949. (Pie chart.) |
| | **Production and Efficiency in the Aggregate** |
| 55(9)-904 | U. S. farm output. (Line chart.) |
| 56(4)-2132 | Net farm production and crop yields, 1951-55 compared with 1937-41. (Bar chart.) |
| 56(5)-2147 | Harvested acres needed, 1975. (Bar chart.) |
| 56(5)-2148 | Annual changes in farm output. (Bar chart.) |
| 56(6)-2158 | Farm production regions. (Location map.) |
| 56(6)-2171 | State economic areas. (Location map.) |
| | **Miscellaneous** |
| **BAE** | |
| 48714-HX | Variability of county cotton yields per seeded acre, 1928-50. (Shaded map.) |

## CHARTS AND MAPS

| Neg. No. | Title |
|---|---|
| | **Miscellaneous - Continued** |
| **BAE** | |
| 49112-XX | Harvesting silage crops, by methods used, specified years. (Bar chart.) |
| **ARS** | |
| 54(2)-110 | Types of farming areas, generalized by crop reporting districts. (Shaded map.) |
| 54(12)-552 | Small commercial farms, 1930-50. (3 bar charts.) |
| 55(9)-565 | Nonfarm goods and services used in farm production (1937-41 and 1950-53.) (Bar chart.) |
| 56(10)-572 | U. S. population and farm output. (Line chart.) |
| 55(7)-711 | Output of labor and capital, cash grain farms, Corn Belt, and hog-dairy farms, Corn Belt. (2 line charts.) |
| 55(7)-712 | Output of labor and capital, dairy farms, Central Northeast, and cotton farms, Southern Piedmont. (2 line charts.) |
| 55(10)-901 | Farm production per acre and per animal. (2 line charts.) |
| 56(6)-2162 | Yield per planted acre (wheat-small grain-livestock farms.) (Line chart.) |
| 56(6)-2173 | Rurality index. (Shaded map.) |